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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,826	12/16/2003	Yasuhiko Matsunaga	U2054.0146	5530
32172 DICKSTEIN SI	7590 06/05/200 HAPIRO LLP	EXAMINER		
1177 AVENUE OF THE AMERICAS (6TH AVENUE)			NGUYEN, TU X	
NEW TORK, I	NEW YORK, NY 10036-2714		ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			06/05/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/735,826	MATSUNAGA, YASUHIKO				
Office Action Summary	Examiner	Art Unit				
	TU X. NGUYEN	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 29 Ma	av 2009.					
• • • • • • • • • • • • • • • • • • • •						
·=	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-5,19-26,34-40,45-48,57,60,61 and 6</u>	63 is/are pending in the applicatio	on.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-5,19-25,34-40,45-48,57,60,61 and 63</u> is/are rejected.						
7) Claim(s) <u>2 and 26</u> is/are objected to.	,					
•	<u> </u>					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☑ The drawing(s) filed on <u>16 December 2003</u> is/are: a)☑ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) Attachment (s) Al Marine of References Cited (RTO 902) Al Marine of References Cited (RTO 902)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1, 19, 25, 34, 37, 45, 57, 60-61 and 63 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 19-21, 25, 34-37, 45, 57, 60-61 and 63, are rejected under 35 U.S.C. 102(b) as being anticipated by Hamabe (US Pub. 2001/0016499).

Regarding claim 1, Hamabe discloses a radio-resource management method comprising a control step of, based on radio-link quality information to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, taking alteration control of a frequency that said radio base station utilizes (par.0124).

Regarding claim 19, Hamabe discloses a radio-resource management method comprising a control step of, based on radio-link quality information to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, detecting an interference state between the operators to take fault- notification

control according to this detected result, and, taking alteration control of a frequency that said radio base station utilizes (par. 0124).

Regarding claims 20 and 35, Hamabe discloses in the event that radio interference having a pre-specified value or more from the other radio operator was detected within a network of a certain radio operator, making fault notification to a network management server of the radio operator that is an interference source (see par.0117-0118 greater than the predetermined threshold causes interference).

Regarding claims 21 and 36, Hamabe discloses in addition to said fault notification, making notification of anyone of an interference quantity, a transmitted-power quantity that the radio base station should attenuate, and a frequency that the radio base station should alter (par.0124), or a combination thereof as well.

Regarding claim 25, Hamabe discloses a radio-resource management apparatus comprising controller for, based on radio-link quality information to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, taking alteration control of a frequency that said radio base station utilizes (see par.0124).

Regarding claim 34, Hamabe discloses a radio-resource management apparatus comprising controller for, based on radio-link quality information to be notified from at least one of a plurality of radio base stations and radio terminals belonging to respective different operators, detecting an interference state between the operators to take fault- notification control according to this detected result, and, taking alteration control of a frequency that said radio base station utilizes (par.0124).

Regarding claim 37, Hamabe discloses a radio base station in a wireless network system including a radio-resource management apparatus for managing a radio resource, and radio base stations belonging to a plurality of respective different radio operators, said radio base station comprising: means for measuring a quality of a radio link, and notifying radio-link quality information that is this measured result to said radio-resource management apparatus; and means for, in reply to alteration-control notification of a frequency based on said measured result from said radio-resource management apparatus, taking alteration control of a service frequency (par.0124).

Regarding claim 45, Hamabe discloses a radio terminal in a wireless network system including a radio-resource management apparatus for managing a radio resource, and radio base stations belonging to a plurality of respective different radio operators, said radio terminal comprising: means for measuring a quality of a radio link, and notifying radio-link quality information that is this measured result to said radio-resource management apparatus; and means for, in reply to alteration-control notification of a frequency based on said measured result from said radio-resource management apparatus, taking alteration control of a service frequency (par.0124).

Regarding claims 57 and 60-61 and 63, Hamabe discloses a computer-readable medium storing a program for causing a computer to execute a control operation of a radio-resource management apparatus in a wireless network system (software program is inherent), said program characterized in including a frequency control step of, based on radio-link quality information, including at least a received level of a radio link, to be notified from at least one of radio base stations and radio terminals belonging to respective different

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operators, taking alteration control of a frequency that said radio base station utilizes on the basis of total received levels of other base stations that use the same frequency used by said radio base station (par.0124).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-5, 22-24, 38-40 and 46-48, are rejected under 35 U.S.C. 103(a) as being unpatentable over Bergqvist (US Pub. 20010005359) in view of Laakso (US Pub. 2003/0003921).

Regarding claims 3, 22, 38 and 46, Bergqvist fails to disclose radio-link quality information is notified at a predetermined notification period.

Laakso discloses radio-link quality information is notified at a predetermined notification period (see par.064). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Bergqvist with the above teaching of Laakso in order to provide information report schedule period in order to make right decisions (as suggested by Laakso, par.0140).

Regarding claims 4-5, 23-24, 39-40 and 47-48, the modified Bergqvist discloses in the event that a link quality of the radio link exceeded a predetermined threshold, said notification

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period is set to be longer than it is set in the event that it is equal to or less than said threshold (see Laakso, par.064, 0140).

Allowable Subject Matter

Claims 2 and 26, objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 2 and 26, the prior art fails to teach "said control step has a step of, in the event that a total of the received levels of the other base stations utilizing a frequency identical to the frequency that said radio base station currently utilizes is larger than a total of the received levels of other base stations in the frequency other than the frequency that is currently utilized, out of the frequency that said radio base station can utilize, taking control so as to make an alteration to the frequency other than said frequency that is currently utilized".

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 571-272-7883.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (571) 272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system,

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contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Tu X Nguyen/

Primary Examiner, Art Unit 2618

06/02/09